

WHAT IS CLAIMED IS:

1. A method of printing comprising:
providing a receiver;
controllably depositing a marking material on the receiver by delivering a mixture of a compressed fluid solvent and the marking material toward the receiver, the mixture being contained under a first condition prior to delivery toward the receiver, the marking material becoming free of the compressed fluid solvent prior to reaching the receiver; and
controllably depositing the marking material on the receiver by delivering the mixture of the compressed fluid solvent and the marking material toward the receiver, the mixture being contained under a second condition prior to delivery toward the receiver, the marking material becoming free of the compressed fluid solvent prior to reaching the receiver, the second condition being distinct from the first condition.
2. The method according to Claim 1, wherein depositing the marking material associated with the first condition produces a material having a first spectral wavelength and depositing the marking material associated with the second condition produces the material having a second spectral wavelength.
3. The method according to Claim 1, wherein depositing the marking material associated with the first condition produces particles of the marking material having a first nominal size and depositing the marking material associated with the second condition produces particles of the marking material having a second nominal size.
4. The method according to Claim 1, wherein the first condition includes maintaining the mixture of the compressed fluid solvent and the marking material under a first pressure and the second condition includes maintaining the mixture of the compressed fluid solvent and the marking material under a second pressure.

5. The method according to Claim 4, wherein controllably depositing the marking material of the mixture contained under the first condition includes delivering the mixture from the first pressure to a solvent evaporating pressure.

6. The method according to Claim 4, wherein controllably depositing the marking material of the mixture contained under the second condition includes delivering the mixture from the second pressure to a solvent evaporating pressure.

7. The method according to Claim 1, wherein the first condition includes maintaining the mixture of the compressed fluid solvent and the marking material under a first temperature and the second condition includes maintaining the mixture of the compressed fluid solvent and the marking material under a second temperature.

8. The method according to Claim 7, wherein controllably depositing the marking material of the mixture contained under the first condition includes delivering the mixture from the first temperature to a solvent evaporating temperature.

9. The method according to Claim 7, wherein controllably depositing the marking material of the mixture contained under the second condition includes delivering the mixture from the second temperature to a solvent evaporating temperature.

10. The method according to Claim 1, wherein controllably depositing the marking material associated with the first condition comprises controllably depositing the marking material associated with the first condition prior to controllably depositing the marking material associated with the second condition.

11. The method according to Claim 1, wherein controllably depositing the marking material associated with the first condition occurs simultaneously with controllably depositing the marking material associated with the second condition.

12. The method according to Claim 1, wherein controllably depositing the marking material associated with the first condition comprises controllably depositing the marking material associated with the first condition in a first location on the receiver and controllably depositing the marking material associated with the second condition comprises controllably depositing the marking material associated with the second condition in a second location on the receiver, the first location being distinct from the second location.

13. The method according to Claim 1, wherein controllably depositing the marking material associated with the first condition comprises controllably depositing the marking material associated with the first condition in a first location on the receiver and controllably depositing the marking material associated with the second condition comprises controllably depositing the marking material associated with the second condition in a second location on the receiver, the second location at least partially overlapping the first location.

14. The method according to Claim 1, wherein controllably depositing the marking material associated with the first condition and controllably depositing the marking material associated with the second condition comprises controllably depositing the marking material associated with the first condition and the second condition such that the combined deposited marking material has an increased color spectrum relative to the marking material associated with the first condition.

15. The method according to Claim 1, wherein the first condition includes maintaining the mixture of the compressed fluid solvent and a

first concentration of the marking material and the second condition includes maintaining the mixture of the compressed fluid solvent and a second concentration of the marking material.

16. The method according to Claim 1, wherein the first condition includes maintaining the mixture of the compressed fluid solvent and the marking material at a predetermined pressure, temperature, and marking material concentration and the second condition includes altering at least one of the predetermined pressure, temperature, and marking material concentration.

17. A method of printing comprising:

providing a receiver;

controllably depositing a first marking material on the receiver by delivering a mixture of a compressed fluid solvent and the first marking material toward the receiver, the mixture being contained under a first condition prior to delivery toward the receiver, the first marking material becoming free of the compressed fluid solvent prior to reaching the receiver;

controllably depositing the first marking material on the receiver by delivering the mixture of the compressed fluid solvent and the first marking material toward the receiver, the mixture being contained under a second condition prior to delivery toward the receiver, the first marking material becoming free of the compressed fluid solvent prior to reaching the receiver, the second condition being distinct from the first condition; and

depositing a second marking material.

18. The method according to Claim 17, wherein depositing the second marking material comprises:

controllably depositing the second marking material on the receiver by delivering a mixture of a compressed fluid solvent and the second marking material toward the receiver, the mixture being contained under a first condition prior to delivery toward the receiver, the second marking material becoming free of the compressed fluid solvent prior to reaching the receiver; and

controllably depositing the second marking material on the receiver by delivering the mixture of the compressed fluid solvent and the second marking material toward the receiver, the mixture being contained under a second condition prior to delivery toward the receiver, the second marking material becoming free of the compressed fluid solvent prior to reaching the receiver, the second condition being distinct from the first condition.

19. The method according to Claim 18, wherein depositing the second marking material associated with the first condition produces a material having a first spectral wavelength and depositing the second marking material associated with the second condition produces the material having a second spectral wavelength.

20. The method according to Claim 18, wherein depositing the second marking material associated with the first condition produces particles of the second marking material having a first nominal size and depositing the second marking material associated with the second condition produces particles of the second marking material having a second nominal size.

21. The method according to Claim 18, wherein controllably depositing the first marking material associated with either of the first condition and the second condition and controllably depositing the second marking material associated with either the first condition and the second condition comprises controllably depositing the first and second marking materials such that the combined deposited marking material has an increased color spectrum relative to a deposited combination of the first and second marking materials.

22. The method according to Claim 17, wherein depositing the first marking material associated with the first condition produces a material having a first spectral wavelength and depositing the first marking material associated with the second condition produces the material having a second spectral wavelength.

23. The method according to Claim 17, wherein depositing the first marking material associated with the first condition produces particles of the first marking material having a first nominal size and depositing the first marking material associated with the second condition produces particles of the first marking material having a second nominal size.

24. The method according to Claim 17, wherein the first condition includes maintaining the mixture of the compressed fluid solvent and the first marking material under a first pressure and the second condition includes maintaining the mixture of the compressed fluid solvent and the first marking material under a second pressure.

25. The method according to Claim 17, wherein the first condition includes maintaining the mixture of the compressed fluid solvent and the first marking material under a first temperature and the second condition includes maintaining the mixture of the compressed fluid solvent and the first marking material under a second temperature.

26. The method according to Claim 17, wherein controllably depositing the marking material associated with the first condition comprises controllably depositing the marking material associated with the first condition prior to controllably depositing the marking material associated with the second condition.

27. The method according to Claim 17, wherein controllably depositing the marking material associated with the first condition occurs simultaneously with controllably depositing the marking material associated with the second condition.

28. A printing apparatus comprising:
a source of a mixture of a compressed fluid solvent and a marking material;

a discharge device positioned in fluid communication with the source of the mixture of the compressed fluid and the marking material; and
a condition controlling device positioned in fluid communication between the source and the discharge device.

29. The apparatus according to Claim 28, wherein the condition controlling device is adapted to produce a material having a first spectral wavelength from the marking material when the marking material is associated with a first condition and produce the material having a second spectral wavelength from the marking material when the marking material is associated with a second condition.

30. The apparatus according to Claim 28, wherein the condition controlling device is adapted to produce particles of the marking material having a first nominal size when the marking material is associated with a first condition and produce particles of the marking material having a second nominal size when the marking material is associated with the second condition.

31. The apparatus according to Claim 28, wherein the condition controlling device is a pressure controlling device.

32. The apparatus according to Claim 31, wherein the pressure controlling device is a pressure reduction valve.

33. The apparatus according to Claim 28, wherein the condition controlling device is a temperature controlling device.